

|                  |       |       |
|------------------|-------|-------|
| B02CE            |       |       |
| Revision 6       |       |       |
| ULTRAMAGIC, S.A. |       |       |
| F-18             | M-42  | V-56  |
| H-31             | M-56  | V-65  |
| H-42             | M-56C | V-77  |
| H-56             | M-65  | V-90  |
| H-65             | M-65C | V-105 |
| H-77             | M-77  | N-180 |
| S-90             | M-77C | N-210 |
| S-105            | M-90  | N-250 |
| S-130            | M-105 | N-300 |
| S-160            | M-120 | N-355 |
| T-150            | M-130 | N-425 |
| T-180            | M-145 | Z-90  |
| T-210            | M-160 |       |
| August 1, 2008   |       |       |

This Data Sheet, which is part of Type Certificate No. B02CE, prescribes conditions and limitations under which the product for which the Type Certificate was issued meets the airworthiness requirements of the Federal Aviation Regulations.

I - Model F-18, Hot Air Balloon, Approved March 6, 1998

Air Heater Double Burner ULTRAMAGIC MK-10, drawing 2012.

Baskets Model C-6, size 1.80 m x 1.30 m x 1.0 m, drawing 3006.

Fuel Commercial LPG or Propane.

**Maximum Weight** 2,205 lbs. (1,000 kg) or the weight resulting in maximum continuous envelope temperature of 100°C (212°F), whichever is the lesser.  
See Approved Flight Manual.

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| <u>Allowable Envelope</u> | 1. Never exceed 130°C (266°F).       |
| <u>Temperature</u>        | 2. Maximum continuous 120°C (248°F). |

**Minimum Crew** One (1) Pilot.

Fuel Capacity Two Ultramagic cylinders, Type M-20.

Fast Deflation System      Equipped with a Fast Deflation System of 6.5 m diameter.

Serial No's Eligible F18/01 onwards.

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II - Model H-42, Hot Air Balloon, Approved March 6, 1998

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|---------------------------------------|--|
| <u>Envelope</u>                       | Volume: 42,372 cu. ft. (1,200 m <sup>3</sup> )<br>Drawing: 1035<br>Gores: 12<br>Disposition: Horizontal<br>Max. Diameter: 45.28 ft. (13.8 m)<br>Total Height: 56.76 ft. (17.3 m)                                 |
| <u>Air Heater</u>                     | Single Burner ULTRAMAGIC MK-2, drawing 2003<br>Single Burner ULTRAMAGIC MK-2 Super, drawing 2005<br>Single Burner ULTRAMAGIC MK-10, drawing 2011<br>Single Burner ULTRAMAGIC MK-21, drawing 2021.                |
| <u>Baskets</u>                        | Model C-0, size 0.80 m x 0.70 m x 0.90 m, drawing 3000.<br>Model C-2, size 1.00 m x 1.00 m x 1.03 m, drawing 3002.   |
| <u>Fuel</u>                           | Commercial LPG or Propane.   |
| <u>Maximum Weight</u>                 | 569 lbs. (258 kg) for Basket C-0;<br>917 lbs. (416 kg) for Basket C-2; or the weight resulting in maximum continuous envelope temperature of 100°C (212°F), whichever is the lesser. See Approved Flight Manual. |
| <u>Allowable Envelope Temperature</u> | 1. Never exceed 130°C (266°F).<br>2. Maximum continuous 120°C (248°F).   |
| <u>Minimum Crew</u>                   | One (1) Pilot.   |
| <u>Minimum Fuel Required</u>          | Two to four standard cylinders must be present (see NOTE 4).   |
| <u>Fast Deflation System</u>          | Optional. See NOTE 5.  |
| <u>Serial No's Eligible</u>           | 42/07 onwards.   |

III - Model H-56 Hot Air Balloon, Approved March 6, 1998

|                       |  |
|-----------------------|--|
| <u>Envelope</u>       | Volume: 56,143 cu. ft. (1,590 m <sup>3</sup> ),<br>Drawing: 1007<br>Gores: 12<br>Disposition: Horizontal<br>Max. Diameter: 50.95 ft. (15.5 m)<br>Total Height: 62.33 ft. (19.0 m)  |
| <u>Air Heater</u>     | Single or Double Burner ULTRAMAGIC MK-2, drawing 2003 or 2002.<br>Single or Double Burner ULTRAMAGIC MK-2 Super, drawing 2005 or 2006.<br>Single or Double Burner ULTRAMAGIC MK-10, drawing 2011 or 2012.<br>Single or Double Burner ULTRAMAGIC MK-21, drawing 2021 or 2022. |
| <u>Baskets</u>        | Model C-0, size 0.80 m x 0.70 m x 0.9 m, drawing 3000.<br>Model C-2, size 1.00 m x 1.00 m x 1.03 m, drawing 3002.  |
| <u>Fuel</u>           | Commercial LPG or Propane.   |
| <u>Maximum Weight</u> | 569 lbs. (258 kg) for Basket C-0;  |

|                                       |   |
|---------------------------------------|---|
|                                       | 1,211 lbs. (549 kg) for Basket C-2; or the weight resulting in maximum continuous envelope temperature of 100°C (212°F), whichever is the lesser. See Approved Flight Manual. |
| <u>Allowable Envelope Temperature</u> | 1. Never exceed 130°C (266°F).<br>2. Maximum continuous 120°C (248°F).  |
| <u>Minimum Crew</u>                   | One (1) Pilot.  |
| <u>Minimum Fuel Required</u>          | Two to four standard cylinders must be present (see NOTE 4).  |
| <u>Fast Deflation System</u>          | Optional. See NOTE 5.   |
| <u>Serial No's Eligible</u>           | 56/15 onwards.  |

#### IV - Model H-65, Hot Air Balloon, Approved March 6, 1998

|                                       |  |
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| <u>Envelope</u>                       | Volume: 64,970 cu. ft. (1,840 m <sup>3</sup> )<br>Drawing: 1003<br>Gores: 12<br>Disposition: Horizontal<br>Max. Diameter: 53.58 ft. (16.3 m)<br>Total Height: 65.29 ft. (19.9 m)   |
| <u>Air Heater</u>                     | Single or Double Burner ULTRAMAGIC MK-1, drawing 2001.<br>Single or Double Burner ULTRAMAGIC MK-2, drawing 2003 or 2002.<br>Single or Double Burner ULTRAMAGIC MK-2 Super, drawing 2005 or 2006.<br>Single or Double Burner ULTRAMAGIC MK-10, drawing 2011 or 2012.<br>Single or Double Burner ULTRAMAGIC MK-21, drawing 2021 or 2022. |
| <u>Baskets</u>                        | Model C-1, size 1.00 m x 1.20 m x 1.03 m, drawing 3001.<br>Model C-2, size 1.00 m x 1.00 m x 1.03 m, drawing 3002.<br>Model C-3, size 1.10 m x 1.3 m x 1.03 m, drawing 3003.<br>Model C-10, size 1.45 m x 1.15 x 1.1 m, drawing 3010.  |
| <u>Fuel</u>                           | Commercial LPG or Propane.   |
| <u>Maximum Weight</u>                 | 1,407 lbs. (638 kg) for Basket C-1;<br>1,407 lbs. (638 kg) for Basket C-2;<br>1,407 lbs. (638 kg) for Basket C-3;<br>1,407 lbs. (638 kg) for Basket C10, or the weight resulting in maximum continuous envelope temperature of 100°C (212°F), whichever is the lesser. See Approved Flight Manual.                                     |
| <u>Allowable Envelope Temperature</u> | 1. Never exceed 130°C (266°F).<br>2. Maximum continuous 120°C (248°F).   |
| <u>Minimum Crew</u>                   | One (1) Pilot.   |
| <u>Minimum Fuel Required</u>          | Two to four standard cylinders must be present (see NOTE 4).   |
| <u>Fast Deflation System</u>          | Optional. See NOTE 5.  |
| <u>Serial No's Eligible</u>           | 65/78 onwards.   |

V - Model H-77, Hot Air Balloon, Approved March 6, 1998

|                                       |  |
|---------------------------------------|--|
| <u>Envelope</u>                       | Volume: 77,329 cu. ft. (2,190 m <sup>3</sup> )<br>Drawing: 1002<br>Gores: 12<br>Disposition: Horizontal<br>Max. Diameter: 56.66 ft. (17.3 m)<br>Total Height: 68.74 ft. (21.0 m)   |
| <u>Air Heater</u>                     | Single or Double Burner ULTRAMAGIC MK-1, drawing 2001.<br>Single or Double Burner ULTRAMAGIC MK-2, drawing 2003 or 2002.<br>Single or Double Burner ULTRAMAGIC MK-2 Super, drawing 2005 or 2006.<br>Single or Double Burner ULTRAMAGIC MK-10, drawing 2011 or 2012.<br>Single or Double Burner ULTRAMAGIC MK-21, drawing 2021 or 2022. |
| <u>Baskets</u>                        | Model C-1, size 1.00 m x 1.20 m x 1.03 m, drawing 3001.<br>Model C-2, size 1.00 m x 1.00 m x 1.03 m, drawing 3002.<br>Model C-3, size 1.10 m x 1.30 m x 1.03 m, drawing 3003.<br>Model C-10, size 1.45 m x 1.15 m x 1.1 m, drawing 3010.   |
| <u>Fuel</u>                           | Commercial LPG or Propane.   |
| <u>Maximum Weight</u>                 | 1,667 lbs. (756 kg) for Basket C-1;<br>1,667 lbs. (756 kg) for Basket C-2;<br>1,667 lbs. (756 kg) for Basket C-3;<br>1,667 lbs. (756 kg) for Basket C-10, or the weight resulting in maximum continuous envelope temperature of 100°C (212°F), whichever is the lesser. See Approved Flight Manual.                                    |
| <u>Allowable Envelope Temperature</u> | 1. Never exceed 130°C (266°F).<br>2. Maximum continuous 120°C (248°F).   |
| <u>Minimum Crew</u>                   | One (1) Pilot.   |
| <u>Minimum Fuel Required</u>          | Two to four standard cylinders must be present (see NOTE 4).   |
| <u>Fast Deflation System</u>          | Optional. See NOTE 5.  |
| <u>Serial No's Eligible</u>           | 77/147 onwards.  |

VI - Model M-56C, Hot Air Balloon, Approved May 02, 2003

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|-------------------|--|
| <u>Envelope</u>   | Volume: 56,150 cu. ft. (1,590 m <sup>3</sup> )<br>Drawing: 1056<br>Gores: 24<br>Disposition: Horizontal<br>Max. Diameter: 45.3 ft. (13.8 m)<br>Total Height: 56.8 ft. (17.3 m)   |
| <u>Air Heater</u> | Single or Double Burner ULTRAMAGIC MK-2, drawing 2003 or 2002.<br>Single or Double Burner ULTRAMAGIC MK-2 Super, drawing 2005 or 2006.<br>Single or Double Burner ULTRAMAGIC MK-10, drawing 2011 or 2012.<br>Single or Double Burner ULTRAMAGIC MK-21, drawing 2021 or 2022. |

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| <u>Baskets</u>                        | Model C-0, size 0.8 m x 0.7 m, drawing 3000.<br>Model C-2, size 1.0 m x 1.0 m x 1.03 m, drawing 3002.   |
| <u>Fuel</u>                           | Commercial LPG or Propane.  |
| <u>Maximum Weight</u>                 | 880 lbs. (399 kg) for Basket C-0;<br>1,214 lbs. (550 kg) for Basket C-2 or the weight resulting in maximum continuous envelope temperature of 120°C (248°F), whichever is the lesser. See Approved Flight Manual. |
| <u>Allowable Envelope Temperature</u> | 1. Never exceed 130°C (266°F).<br>2. Maximum continuous 120°C (248°F).  |
| <u>Minimum Crew</u>                   | One (1) Pilot.  |
| <u>Minimum Fuel Required</u>          | Two to four standard cylinders must be present (see NOTE 4).  |
| <u>Fast Deflation System</u>          | Optional. See NOTE 5.   |
| <u>Serial No's Eligible</u>           | 56-15 onwards.  |

#### VII - Model M-65, Hot Air Balloon, Approved March 6, 1998

|                                       |  |
|---------------------------------------|--|
| <u>Envelope</u>                       | Volume: 64,970 cu. ft. (1,840 m <sup>3</sup> )<br>Drawing: 1020<br>Gores: 24<br>Disposition: Horizontal<br>Max. Diameter: 52.56 ft. (16.0 m)<br>Total Height: 65.10 ft. (19.8 m)   |
| <u>Air Heater</u>                     | Single or Double Burner ULTRAMAGIC MK-2, drawing 2003 or 2002.<br>Single or Double Burner ULTRAMAGIC MK-2 Super, drawing 2005 or 2006.<br>Single or Double Burner ULTRAMAGIC MK-10, drawing 2011 or 2012.<br>Single or Double Burner ULTRAMAGIC MK-21, drawing 2021 or 2022.   |
| <u>Baskets</u>                        | Model C-1, size 1.2 m x 1.0 m x 1.03 m, drawing 3001.<br>Model C-2, size 1.0 m x 1.0 m x 1.03 m, drawing 3002.<br>Model C-3, size 1.3 m x 1.1 m x 1.03 m, drawing 3003.<br>Model C-4, size 1.6 m x 1.2 m x 1.03 m, drawing 3004.<br>Model C-10, size 1.45 m x 1.15 m x 1.1 m, drawing 3010.  |
| <u>Fuel</u>                           | Commercial LPG or Propane.   |
| <u>Maximum Weight</u>                 | 1,407 lbs. (638 kg) for Basket C-1;<br>1,407 lbs. (638 kg) for Basket C-2;<br>1,407 lbs. (638 kg) for Basket C-3;<br>1,407 lbs. (638 kg) for Basket C-4;<br>1,407 lbs. (638 kg) for Basket C-10, or the weight resulting in maximum continuous envelope temperature of 100°C (212°F), whichever is the lesser. See Approved Flight Manual. |
| <u>Allowable Envelope Temperature</u> | 1. Never exceed 130°C (266°F).<br>2. Maximum continuous 120°C (248°F).   |
| <u>Minimum Crew</u>                   | One (1) Pilot.   |

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| <u>Minimum Fuel Required</u> | Two to four standard cylinders must be present (see NOTE 4). |
| <u>Fast Deflation System</u> | Optional. See NOTE 5.  |
| <u>Serial No's Eligible</u>  | 65/78 onwards.   |

#### VIII - Model M-65C, Hot Air Balloon, Approved March 6, 1998

|                                       |  |
|---------------------------------------|--|
| <u>Envelope</u>                       | Volume: 64,970 cu. ft. (1,840 m <sup>3</sup> )<br>Drawing: 1054<br>Gores: 24<br>Disposition: Horizontal<br>Max. Diameter: 48.23 ft. (14.7 m)<br>Total Height: 69.89 ft. (21.3 m)   |
| <u>Air Heater</u>                     | Single or Double Burner ULTRAMAGIC MK-2, drawing 2003 or 2002.<br>Single or Double Burner ULTRAMAGIC MK-2 Super, drawing 2005 or 2006.<br>Single or Double Burner ULTRAMAGIC MK-10, drawing 2011 or 2012.<br>Single or Double Burner ULTRAMAGIC MK-21, drawing 2021 or 2022.   |
| <u>Baskets</u>                        | Model C-1, size 1.2 m x 1.0 m x 1.03 m, drawing 3001.<br>Model C-2, size 1.0 m x 1.0 m x 1.03 m, drawing 3002.<br>Model C-3, size 1.3 m x 1.1 m x 1.03 m, drawing 3003.<br>Model C-4, size 1.6 m x 1.2 m x 1.03 m, drawing 3004.<br>Model C-10, size 1.45 m x 1.15 m x 1.1 m, drawing 3010.  |
| <u>Fuel</u>                           | Commercial LPG or Propane.   |
| <u>Maximum Weight</u>                 | 1,407 lbs. (638 kg) for Basket C-1;<br>1,407 lbs. (638 kg) for Basket C-2;<br>1,407 lbs. (638 kg) for Basket C-3;<br>1,407 lbs. (638 kg) for Basket C-4;<br>1,407 lbs. (638 kg) for Basket C-10, or the weight resulting in maximum continuous envelope temperature of 100°C (212°F), whichever is the lesser. See Approved Flight Manual. |
| <u>Allowable Envelope Temperature</u> | 1. Never exceed 130°C (266°F).<br>2. Maximum continuous 120°C (248°F).   |
| <u>Minimum Crew</u>                   | One (1) Pilot.   |
| <u>Minimum Fuel Required</u>          | Two to four standard cylinders must be present (see NOTE 4).   |
| <u>Fast Deflation System</u>          | Optional. See NOTE 5.  |
| <u>Serial No's Eligible</u>           | 65/78 onwards.   |

#### IX- Model M-77, Hot Air Balloon, Approved March 6, 1998

|                 |  |
|-----------------|--|
| <u>Envelope</u> | Volume: 77,682 cu. ft. (2,200 m <sup>3</sup> )<br>Drawing: 1009<br>Gores: 24<br>Disposition: Horizontal<br>Max. Diameter: 55.55 ft. (16.9 m)<br>Total Height: 68.84 ft. (20.9 m) |
|-----------------|--|

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|---------------------------------------|---|
| <u>Air Heater</u>                     | Single or Double Burner ULTRAMAGIC MK-2, drawing 2003 or 2002.<br>Single or Double Burner ULTRAMAGIC MK-2 Super, drawing 2005 or 2006.<br>Single or Double Burner ULTRAMAGIC MK-10, drawing 2011 or 2012.<br>Single or Double Burner ULTRAMAGIC MK-21, drawing 2021 or 2022.                        |
| <u>Baskets</u>                        | Model C-1, size 1.2 m x 1.0 m x 1.03 m, drawing 3001.<br>Model C-2, size 1.0 m x 1.0 m x 1.03 m, drawing 3002.<br>Model C-3, size 1.3 m x 1.1 m x 1.03 m, drawing 3003.<br>Model C-10, size 1.45 m x 1.15 m x 1.1 m, drawing 3010.  |
| <u>Fuel</u>                           | Commercial LPG or Propane.  |
| <u>Maximum Weight</u>                 | 1,667 lbs. (756 kg) for Basket C-1;<br>1,667 lbs. (756 kg) for Basket C-2;<br>1,667 lbs. (756 kg) for Basket C-3;<br>1,667 lbs. (756 kg) for Basket C-10, or the weight resulting in maximum continuous envelope temperature of 100°C (212°F), whichever is the lesser. See Approved Flight Manual. |
| <u>Allowable Envelope Temperature</u> | 1. Never exceed 130°C (266°F).<br>2. Maximum continuous 120°C (248°F).  |
| <u>Minimum Crew</u>                   | One (1) Pilot.  |
| <u>Minimum Fuel Required</u>          | Two to four standard cylinders must be present (see NOTE 4).  |
| <u>Fast Deflation System</u>          | Optional. See NOTE 5.   |
| <u>Serial No's Eligible</u>           | 77/147 onwards.   |

X - Model M-90, Hot Air Balloon, Approved March 6, 1998

|                       |   |
|-----------------------|---|
| <u>Envelope</u>       | Volume: 90,041 cu. ft. (2,550 m <sup>3</sup> )<br>Drawing: 1040<br>Gores: 24<br>Disposition: Horizontal<br>Max. Diameter: 57.09 ft. (17.4 m)<br>Total Height: 70.87 ft. (21.6 m)  |
| <u>Air Heater</u>     | Double Burner ULTRAMAGIC MK-2, drawing 2002.<br>Double Burner ULTRAMAGIC MK-2 Super, drawing 2006.<br>Double Burner ULTRAMAGIC MK-10, drawing 2012.<br>Double Burner ULTRAMAGIC MK-21, drawing 2022.  |
| <u>Baskets</u>        | Model C-1, size 1.2 m x 1.0 m x 1.03 m, drawing 3001.<br>Model C-2, size 1.0 m x 1.0 m x 1.03 m, drawing 3002.<br>Model C-3, size 1.3 m x 1.1 m x 1.03 m, drawing 3003.<br>Model C-4, size 1.6 m x 1.2 m x 1.03 m, drawing 3004.<br>Model C-10, size 1.45 m x 1.15 m x 1.1 m, drawing 3010. |
| <u>Fuel</u>           | Commercial LPG or Propane.  |
| <u>Maximum Weight</u> | 1,936 lbs. (878 kg) for Basket C-1;<br>1,667 lbs. (756 kg) for Basket C-2;<br>1,936 lbs. (878 kg) for Basket C-3;<br>1,936 lbs. (878 kg) for Basket C-4;  |

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|                                       | 1,936 lbs. (878 kg) for Basket C-10, or the weight resulting in maximum continuous envelope temperature of 100°C (212°F), whichever is the lesser. See Approved Flight Manual. |
| <u>Allowable Envelope Temperature</u> | 1. Never exceed 130°C (266°F).<br>2. Maximum continuous 120°C (248°F).   |
| <u>Minimum Crew</u>                   | One (1) Pilot.   |
| <u>Minimum Fuel Required</u>          | Two to four standard cylinders must be present (see NOTE 4).   |
| <u>Fast Deflation System</u>          | Optional. See NOTE 5.  |
| <u>Serial No's Eligible</u>           | 90/26 onwards.   |

XI - Model M-105, Hot Air Balloon, Approved March 6, 1998

|                                       |   |
|---------------------------------------|---|
| <u>Envelope</u>                       | Volume: 104,165 cu. ft. (2,950 m <sup>3</sup> )<br>Drawing: 1010<br>Gores: 24<br>Disposition: Horizontal<br>Max. Diameter: 61.62 ft. (18.8 m)<br>Total Height: 75.70 ft. (23.1 m)   |
| <u>Air Heater</u>                     | Double or Triple Burner ULTRAMAGIC MK-2, drawing 2002 or 2004.<br>Double or Triple Burner ULTRAMAGIC MK-2 Super, drawing 2006 or 2007.<br>Double or Triple Burner ULTRAMAGIC MK-10, drawing 2012 or 2013.<br>Double or Triple Burner ULTRAMAGIC MK-21, drawing 2022 or 2023.                                |
| <u>Baskets</u>                        | Model C-1, size 1.2 m x 1.0 m x 1.03 m, drawing 3001.<br>Model C-3, size 1.3 m x 1.1 m x 1.03 m, drawing 3003.<br>Model C-4, size 1.6 m x 1.2 m x 1.03 m, drawing 3004.<br>Model C-10, size 1.45 m x 1.15 m x 1.1 m, drawing 3010.  |
| <u>Fuel</u>                           | Commercial LPG or Propane.  |
| <u>Maximum Weight</u>                 | 2,276 lbs. (1,032 kg) for Basket C-1;<br>2,276 lbs. (1,032 kg) for Basket C-3;<br>2,276 lbs. (1,032 kg) for Basket C-4;<br>2,205 lbs. (1,000 kg) for Basket C-10, or the weight resulting in maximum continuous envelope temperature of 100°C (212°F), whichever is the lesser. See Approved Flight Manual. |
| <u>Allowable Envelope Temperature</u> | 1. Never exceed 130°C (266°F).<br>2. Maximum continuous 120°C (248°F).  |
| <u>Minimum Crew</u>                   | One (1) Pilot.  |
| <u>Minimum Fuel Required</u>          | Two to six standard cylinders must be present (see NOTE 4).   |
| <u>Fast Deflation System</u>          | Optional. See NOTE 5.   |
| <u>Serial No's Eligible</u>           | 105/47 onwards.   |



XII - Model M-130, Hot Air Balloon, Approved March 6, 1998

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| <u>Envelope</u>                       | Volume: 129,941 cu. ft. (3,680 m <sup>3</sup> )<br>Drawing: 1021<br>Gores: 24<br>Disposition: Horizontal<br>Max. Diameter: 66.23 ft. (20.2 m)<br>Total Height: 80.56 ft. (24.2 m)  |
| <u>Air Heater</u>                     | Double or Triple Burner ULTRAMAGIC MK-2, drawing 2002 or 2004.<br>Double or Triple Burner ULTRAMAGIC MK-2 Super, drawing 2006 or 2007.<br>Double or Triple Burner ULTRAMAGIC MK-10, drawing 2012 or 2013.<br>Double or Triple Burner ULTRAMAGIC MK-21, drawing 2022 or 2023.   |
| <u>Baskets</u>                        | Model C-1, size 1.2 m x 1.0 m x 1.03 m, drawing 3001.<br>Model C-3, size 1.3 m x 1.1 m x 1.03 m, drawing 3003.<br>Model C-4, size 1.6 m x 1.2 m x 1.03 m, drawing 3004.<br>Model C-5, size 2.2 m x 1.4 m x 1.1 m, drawing 3005.<br>Model C-6, size 1.8 m x 1.3 m x 1.1 m, drawing 3006.<br>Model C-7, size 2.0 m x 1.4 m x 1.1 m, drawing 3007.<br>Model C-10, size 1.45 m x 1.15 m x 1.1 m, drawing 3010.                             |
| <u>Fuel</u>                           | Commercial LPG or Propane.   |
| <u>Maximum Weight</u>                 | 2,276 lbs. (1,032 kg) for Basket C-1;<br>3,010 lbs. (1,365 kg) for Basket C-3;<br>3,010 lbs. (1,365 kg) for Basket C-4;<br>3,010 lbs. (1,365 kg) for Basket C-5;<br>2,373 lbs. (1,076 kg) for Basket C-6;<br>2,840 lbs. (1,288 kg) for Basket C-7;<br>2,205 lbs. (1,000 kg) for Basket C-10, or the weight resulting in maximum continuous envelope temperature of 100°C (212°F), whichever is the lesser. See Approved Flight Manual. |
| <u>Allowable Envelope Temperature</u> | 1. Never exceed 130°C (266°F).<br>2. Maximum continuous 120°C (248°F).   |
| <u>Minimum Crew</u>                   | One (1) Pilot.   |
| <u>Minimum Fuel Required</u>          | Two to six standard cylinders must be present (see NOTE 4).  |
| <u>Fast Deflation System</u>          | Optional. See NOTE 5.  |
| <u>Serial No's Eligible</u>           | 130/14 onwards.  |

XIII - Model M-145, Hot Air Balloon, Approved March 6, 1998

|                   |   |
|-------------------|---|
| <u>Envelope</u>   | Volume: 144,948 cu. ft. (4,105 m <sup>3</sup> )<br>Drawing: 1036<br>Gores: 24<br>Disposition: Horizontal<br>Max. Diameter: 66.93 ft. (20.4 m)<br>Total Height: 81.04 ft. (24.7 m) |
| <u>Air Heater</u> | Double or Triple Burner ULTRAMAGIC MK-2, drawing 2002 or 2004.  |

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|                                       | Double or Triple Burner ULTRAMAGIC MK-2 Super, drawing 2006 or 2007.<br>Double or Triple Burner ULTRAMAGIC MK-10, drawing 2012 or 2013.<br>Double or Triple Burner ULTRAMAGIC MK-21, drawing 2022 or 2023.  |
| <u>Baskets</u>                        | Model C-3, size 1.3 m x 1.1 m x 1.03 m, drawing 3003.<br>Model C-4, size 1.6 m x 1.2 m x 1.03 m, drawing 3004.<br>Model C-5, size 2.2 m x 1.4 m x 1.1 m, drawing 3005.<br>Model C-6, size 1.8 m x 1.3 m x 1.1 m, drawing 3006.<br>Model C-7, size 2.0 m x 1.4 m x 1.1 m, drawing 3007.<br>Model C-10, size 1.45 m x 1.15 m x 1.1 m, drawing 3010.   |
| <u>Fuel</u>                           | Commercial LPG or Propane.  |
| <u>Maximum Weight</u>                 | 3,010 lbs. (1,365 kg) for Basket C-3;<br>3,166 lbs. (1,436 kg) for Basket C-4;<br>3,166 lbs. (1,436 kg) for Basket C-5;<br>2,373 lbs. (1,076 kg) for Basket C-6;<br>2,840 lbs. (1,288 kg) for Basket C-7;<br>2,205 lbs. (1,000 kg) for Basket C-10, or the weight resulting in maximum continuous envelope temperature of 100°C (212°F), whichever is the lesser. See Approved Flight Manual. |
| <u>Allowable Envelope Temperature</u> | 1. Never exceed 130°C (266°F).<br>2. Maximum continuous 120°C (248°F).  |
| <u>Minimum Crew</u>                   | One (1) Pilot.  |
| <u>Minimum Fuel Required</u>          | Two to six standard cylinders must be present (see NOTE 4).   |
| <u>Fast Deflation System</u>          | Optional. See NOTE 5.   |
| <u>Serial No's Eligible</u>           | 145/09 onwards.   |

#### XIV - Model M-160, Hot Air Balloon, Approved March 6, 1998

|                   |  |
|-------------------|--|
| <u>Envelope</u>   | Volume: 160,661 cu. ft. (4,550 m <sup>3</sup> )<br>Drawing: 1011<br>Gores: 24<br>Disposition: Horizontal<br>Max. Diameter: 70.90 ft. (21.6 m)<br>Total Height: 86.23 ft. (26.3 m)  |
| <u>Air Heater</u> | Double or Triple Burner ULTRAMAGIC MK-2, drawing 2002 or 2004.<br>Double or Triple Burner ULTRAMAGIC MK-2 Super, drawing 2006 or 2007.<br>Double or Triple Burner ULTRAMAGIC MK-10, drawing 2012 or 2013.<br>Double or Triple Burner ULTRAMAGIC MK-21, drawing 2022 or 2023.             |
| <u>Baskets</u>    | Model C-4, size 1.6 m x 1.2 m x 1.03 m, drawing 3004.<br>Model C-5, size 2.2 m x 1.4 m x 1.1 m, drawing 3005.<br>Model C-6, size 1.8 m x 1.3 m x 1.1 m, drawing 3006.<br>Model C-7, size 2.0 m x 1.4 m x 1.1 m, drawing 3007.<br>Model C-10, size 1.45 m x 1.15 m x 1.1 m, drawing 3010. |
| <u>Fuel</u>       | Commercial LPG or Propane.   |

|                                       |  |
|---------------------------------------|--|
| <u>Maximum Weight</u>                 | 3,460 lbs. (1,569 kg) for Basket C-4;<br>3,460 lbs. (1,569 kg) for Basket C-5;<br>2,373 lbs. (1,076 kg) for Basket C-6;<br>2,840 lbs. (1,288 kg) for Basket C-7;<br>2,205 lbs. (1,000 kg) for Basket C-10, or the weight resulting in maximum continuous envelope temperature of 100°C (212°F), whichever is the lesser. See Approved Flight Manual. |
| <u>Allowable Envelope Temperature</u> | 1. Never exceed 130°C (266°F).<br>2. Maximum continuous 120°C (248°F).   |
| <u>Minimum Crew</u>                   | One (1) Pilot.   |
| <u>Minimum Fuel Required</u>          | Two to six standard cylinders must be present (see NOTE 4).  |
| <u>Fast Deflation System</u>          | Optional. See NOTE 5.  |
| <u>Serial No's Eligible</u>           | 160/19 onwards.  |

XV - Model N-180, Hot Air Balloon, Approved March 6, 1998

|                                       |   |
|---------------------------------------|---|
| <u>Envelope</u>                       | Volume: 180,081 cu. ft. (5,100 m <sup>3</sup> )<br>Drawing: 1031<br>Gores: 28<br>Disposition: N, Horizontal<br>Max. diameter: 73.74 ft. (22.5 m)<br>Envelope Height: 89.57 ft. (27.3 m)   |
| <u>Air Heater</u>                     | Triple Burner ULTRAMAGIC MK-2, drawing 2004.<br>Triple or Quadruple Burner ULTRAMAGIC MK-2 Super, drawing 2007 or 2008.<br>Triple or Quadruple Burner ULTRAMAGIC MK-10, drawing 2013 or 2014.<br>Triple or Quadruple Burner ULTRAMAGIC MK-21, drawing 2023 or 2024.   |
| <u>Baskets</u>                        | Model C-5, size 1.40 m x 2.20 m x 1.1 m, drawing 3005.<br>Model C-6, size 1.30 m x 1.80 m x 1.1 m, drawing 3006.<br>Model C-7, size 2.00 m x 1.40 m x 1.1 m, drawing 3007.<br>Model C-8, size 1.50 m x 2.60 m, drawing 3008<br>Model C-9, size 1.60 m x 3.00 m, drawing 3009.   |
| <u>Fuel</u>                           | Commercial LPG or Propane.  |
| <u>Maximum Weight</u>                 | 3,460 lbs. (1,569 kg) for Basket C-5;<br>2,373 lbs. (1,076 kg) for Basket C-6;<br>2,840 lbs. (1,288 kg) for Basket C-7;<br>3,868 lbs. (1,754 kg) for Basket C-8;<br>3,868 lbs. (1,754 kg) for Basket C-9, or the weight resulting in maximum continuous envelope temperature of 100°C (212°F), whichever is the lesser. See Approved Flight Manual. |
| <u>Allowable Envelope Temperature</u> | 1. Never exceed 130°C (266°F).<br>2. Maximum continuous 120°C (248°F).  |
| <u>Minimum Crew</u>                   | One (1) Pilot.  |
| <u>Minimum Fuel Required</u>          | Two to eight standard cylinders must be present (see NOTE 4).   |
| <u>Fast Deflation System</u>          | Optional. See NOTE 5.   |

Serial No's Eligible 180/15 onwards.

XVI - Model N-210 Hot Air Balloon, Approved March 6, 1998

|                                       |  |
|---------------------------------------|--|
| <u>Envelope</u>                       | Volume: 211,860 cu. ft. (6,000m <sup>3</sup> ),<br>Drawing 1032<br>Gores: 28<br>Disposition: N, Horizontal<br>Max. diameter: 78.06 ft. (23.8 m)<br>Envelope Height: 94,82 ft. (28,9 m)   |
| <u>Air Heater</u>                     | Triple Burner ULTRAMAGIC MK-2, drawing 2004.<br>Triple or Quadruple Burner ULTRAMAGIC MK-2 Super, drawings 2007 or 2008.<br>Triple or Quadruple Burner ULTRAMAGIC MK-10, drawings 2013 or 2014.<br>Triple or Quadruple Burner ULTRAMAGIC MK-21, drawing 2023 or 2024.                                      |
| <u>Baskets</u>                        | Model C-5, size 1.40 m x 2.20 m x 1.1 m, drawing 3005.<br>Model C-7, size 2.00 m x 1.40 m x 1.1 m, drawing 3007.<br>Model C-8, size 1.50 m x 2.60 m, drawing 3008<br>Model C-9, size 1.60 m x 3.00 m, drawing 3009.  |
| <u>Fuel</u>                           | Commercial LPG or Propane.   |
| <u>Maximum Weight</u>                 | 3,460 lbs. (1,569 kg) for Basket C-5;<br>2,840 lbs. (1,288 kg) for Basket C-7;<br>3,956 lbs. (1,794 kg) for Basket C-8;<br>4,551 lbs. (2,064 kg) for Basket C-9, or the weight resulting in maximum continuous envelope temperature of 100°C (212°F), whichever is the lesser. See Approved Flight Manual. |
| <u>Allowable Envelope Temperature</u> | 1. Never exceed 130°C (266°F).<br>2. Maximum continuous 120°C (248°F).   |
| <u>Minimum Crew</u>                   | One (1) Pilot.   |
| <u>Minimum Fuel Required</u>          | Two to eight standard cylinders must be present (see NOTE 4).  |
| <u>Fast Deflation System</u>          | Optional. See NOTE 5.  |
| <u>Serial No's Eligible</u>           | 210/07 onwards.  |

XVII - Model N-250, Hot Air Balloon, Approved March 6, 1998

|                   |   |
|-------------------|---|
| <u>Envelope</u>   | Volume: 247,170 cu. ft. (7,000 m <sup>3</sup> )<br>Drawing: 1033<br>Gores: 28<br>Disposition: N, Horizontal<br>Max. diameter: 81.82 ft. (24.9 m)<br>Envelope Height: 99.41 ft. (30.3 m) |
| <u>Air Heater</u> | Quadruple Burner ULTRAMAGIC MK-2 Super, drawing 2008.<br>Quadruple Burner ULTRAMAGIC MK-10, drawing 2014.<br>Quadruple Burner ULTRAMAGIC MK-21, drawing 2024                            |
| <u>Baskets</u>    | Model C-5, size 1.40 m x 2.20 m, drawing 3005.<br>Model C-8, size 1.50 m x 2.60 m, drawing 3008.  |

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Model C-9, size 1.60 m x 3.00 m, drawing 3009.

|                                       |   |
|---------------------------------------|---|
| <u>Fuel</u>                           | Commercial LPG or Propane.  |
| <u>Maximum Weight</u>                 | 3,460 lbs. (1,569 kg) for Basket C-5;<br>3,956 lbs. (1,794 kg) for Basket C-8;<br>4,869 lbs. (2,208 kg) for Basket C-9, or the weight resulting in maximum continuous envelope temperature of 100°C (212°F), whichever is the lesser. See Approved Flight Manual. |
| <u>Allowable Envelope Temperature</u> | 1. Never exceed 130°C (266°F).<br>2. Maximum continuous 120°C (248°F).  |
| <u>Minimum Crew</u>                   | One (1) Pilot.  |
| <u>Minimum Fuel Required</u>          | Two to eight standard cylinders must be present (see NOTE 4).   |
| <u>Fast Deflation System</u>          | Optional. See NOTE 5.   |
| <u>Serial No's Eligible</u>           | 250/08 onwards.   |

#### XVIII - Model N-300, Hot Air Balloon, Approved May 3, 2007

|                                       |   |
|---------------------------------------|---|
| <u>Envelope</u>                       | Volume: 300,135 cu. ft. (8,500 m <sup>3</sup> )<br>Drawing: 1034<br>Gores: 28<br>Disposition: N, Horizontal<br>Max. diameter: 87.33 ft. (26.6 m)<br>Envelope Height: 106.20 ft. (32.4 m)  |
| <u>Air Heater</u>                     | See NOTE 6.<br>Triple Burner ULTRAMAGIC MK-21, drawing 2023.<br>Triple or Quadruple Burner ULTRAMAGIC MK-21, drawing 2023 or 2024.<br>Quadruple Burner ULTRAMAGIC MK-21, Elec drawing 2022/0100-0000-0200.  |
| <u>Baskets</u>                        | Model C-5, size 1.40 m x 2.20 m, drawing 3005.<br>Model C-8, size 1.50 m x 2.60 m, drawing 3008.<br>Model C-9, size 1.60 m x 3.00 m, drawing 3009.<br>Model C-11, size 1.70 m x 3.50 m, drawing 3011<br>Model C-12, size 1.70 m x 4.50 m, drawing 3012  |
| <u>Fuel</u>                           | Commercial LPG or Propane.  |
| <u>Maximum Weight</u>                 | 4,379 lbs. (1,986 kg) for Basket C-5;<br>4,908 lbs. (2,226 kg) for Basket C-8;<br>5,909 lbs. (2,680 kg) for Basket C-9;<br>6,447 lbs. (2,924 kg) for Basket C-11;<br>6,447 lbs. (2,924 kg) for Basket C-12, or the weight resulting in maximum continuous envelope temperature of 100°C (212°F), whichever is the lesser. See Approved Flight Manual. |
| <u>Allowable Envelope Temperature</u> | 1. Never exceed 130°C (266°F).<br>2. Maximum continuous 120°C (248°F).  |
| <u>Minimum Crew</u>                   | One (1) Pilot.  |
| <u>Minimum Fuel Required</u>          | Two to eight standard cylinders must be present (see NOTE 4).   |
| <u>Fast Deflation System</u>          | Optional. See NOTE 5.   |

Serial No's Eligible 300/01 onwards.

XIX - Model N-355, Hot Air Balloon, Approved March 6, 1998

|                                       |   |
|---------------------------------------|---|
| <u>Envelope</u>                       | Volume: 353,100 cu. ft. (10,000 m <sup>3</sup> )<br>Drawing: 1053<br>Gores: 28<br>Disposition: N, Horizontal<br>Max. diameter: 90.23 ft. (27.5 m)<br>Envelope Height: 109.26 ft. (33,3 m)   |
| <u>Air Heater</u>                     | Quadruple Burner ULTRAMAGIC MK-2 Super, drawing 2008.<br>Quadruple Burner ULTRAMAGIC MK-10, drawing 2014.<br>Quadruple Burner ULTRAMAGIC MK-21, drawing 2024.   |
| <u>Baskets</u>                        | Model C-5, size 1.40 m x 2.20 m, drawing 3005.<br>Model C-8, size 1.50 m x 2.60 m, drawing 3008.<br>Model C-9, size 1.60 m x 3.00 m, drawing 3009.  |
| <u>Fuel</u>                           | Commercial LPG or Propane.  |
| <u>Maximum Weight</u>                 | 3,460 lbs. (1,569 kg) for Basket C-5;<br>3,956 lbs. (1,794 kg) for Basket C-8;<br>4,869 lbs. (2,208 kg) for Basket C-9, or the weight resulting in<br>maximum continuous envelope temperature of 100°C (212°F),<br>whichever is the lesser. See Approved Flight Manual. |
| <u>Allowable Envelope Temperature</u> | 1. Never exceed 130°C (266°F).<br>2. Maximum continuous 120°C (248°F).  |
| <u>Minimum Crew</u>                   | One (1) Pilot.  |
| <u>Minimum Fuel Required</u>          | Two to eight standard cylinders must be present (see NOTE 4).   |
| <u>Fast Deflation System</u>          | Optional. See NOTE 5.   |
| <u>Serial No's Eligible</u>           | 355/02 onwards.   |

XX - Model S-90, Hot Air Balloon, Approved March 6, 1998

|                   |   |
|-------------------|---|
| <u>Envelope</u>   | Volume: 90,041 cu. ft. (2,550 m <sup>3</sup> )<br>Drawing: 1013<br>Gores: 16<br>Disposition: Horizontal<br>Max. Diameter: 59.66 ft. (18.1 m)<br>Total Height: 71.87 ft. (21.9 m)  |
| <u>Air Heater</u> | Double Burner ULTRAMAGIC MK-2, drawing 2002.<br>Double Burner ULTRAMAGIC MK-2 Super, drawing 2006.<br>Double Burner ULTRAMAGIC MK-10, drawing 2012.<br>Double Burner ULTRAMAGIC MK-21, drawing 2022.  |
| <u>Baskets</u>    | Model C-1, size 1.2 m x 1.0 m x 1.03 m, drawing 3001.<br>Model C-2, size 1.0 m x 1.0 m x 1.03 m, drawing 3002.<br>Model C-3, size 1.3 m x 1.1 m x 1.03 m, drawing 3003.<br>Model C-4, size 1.6 m x 1.2 m x 1.03 m, drawing 3004.<br>Model C-10, size 1.45 m x 1.15 m x 1.1 m, drawing 3010. |
| <u>Fuel</u>       | Commercial LPG or Propane.  |

|                                       |  |
|---------------------------------------|--|
| <u>Maximum Weight</u>                 | 1,936 lbs. (878 kg) for Basket C-1;<br>1,667 lbs. (756 kg) for Basket C-2;<br>1,936 lbs. (878 kg) for Basket C-3;<br>1,936 lbs. (878 kg) for Basket C-4;<br>1,936 lbs. (878 kg) for Basket C-10, or the weight resulting in maximum continuous envelope temperature of 100°C (212°F), whichever is the lesser. See Approved Flight Manual. |
| <u>Allowable Envelope Temperature</u> | 1. Never exceed 130°C (266°F).<br>2. Maximum continuous 120°C (248°F).   |
| <u>Minimum Crew</u>                   | One (1) Pilot.   |
| <u>Minimum Fuel Required</u>          | Two to four standard cylinders must be present (see NOTE 4).   |
| <u>Fast Deflation System</u>          | Optional. See NOTE 5.  |
| <u>Serial No's Eligible</u>           | 90/26 onwards.   |

XXI - Model S-105 Hot Air Balloon, Approved March 6, 1998

|                                       |   |
|---------------------------------------|---|
| <u>Envelope</u>                       | Volume: 104,165 cu. ft. (2,950 m <sup>3</sup> )<br>Drawing 1014<br>Gores: 24<br>Disposition: Horizontal<br>Max. Diameter: 62.63 ft. (19.1 m)<br>Total Height: 75.17 ft. (22.9 m)  |
| <u>Air Heater</u>                     | Double or Triple Burner ULTRAMAGIC MK-2, drawing 2002 or 2004.<br>Double or Triple Burner ULTRAMAGIC MK-2 Super, drawing 2006 or 2007.<br>Double or Triple Burner ULTRAMAGIC MK-10, drawing 2012 or 2013.<br>Double or Triple Burner ULTRAMAGIC MK-21, drawing 2022 or 2023.                                |
| <u>Baskets</u>                        | Model C-1, size 1.2 m x 1.0 m x 1.03 m, drawing 3001.<br>Model C-3, size 1.3 m x 1.1 m x 1.03 m, drawing 3003.<br>Model C-4, size 1.6 m x 1.2 m x 1.03 m, drawing 3004.<br>Model C-10, size 1.45 m x 1.15 m x 1.1 m, drawing 3010.  |
| <u>Fuel</u>                           | Commercial LPG or Propane.  |
| <u>Maximum Weight</u>                 | 2,276 lbs. (1,032 kg) for Basket C-1;<br>2,276 lbs. (1,032 kg) for Basket C-3;<br>2,276 lbs. (1,032 kg) for Basket C-4;<br>2,205 lbs. (1,000 kg) for Basket C-10, or the weight resulting in maximum continuous envelope temperature of 100°C (212°F), whichever is the lesser. See Approved Flight Manual. |
| <u>Allowable Envelope Temperature</u> | 1. Never exceed 130°C (266°F).<br>2. Maximum continuous 120°C (248°F).  |
| <u>Minimum Crew</u>                   | One (1) Pilot.  |
| <u>Minimum Fuel Required</u>          | Two to six standard cylinders must be present (see NOTE 4).   |
| <u>Fast Deflation System</u>          | Optional. See NOTE 5.   |

Serial No's Eligible

105/47 onwards.

XXII - Model S-130, Hot Air Balloon, Approved March 6, 1998Envelope

Volume: 129,941 cu. ft. (3,680 m<sup>3</sup>)  
 Drawing: 1015  
 Gores: 16  
 Disposition: Horizontal  
 Max. Diameter: 67.43 ft. (20.6 m)  
 Total Height: 80.49 ft. (24.5 m)

Air Heater

Double or Triple Burner ULTRAMAGIC MK-2, drawing 2002 or 2004.  
 Double or Triple Burner ULTRAMAGIC MK-2 Super, drawing 2006 or 2007.  
 Double or Triple Burner ULTRAMAGIC MK-10, drawing 2012 or 2013.  
 Double or Triple Burner ULTRAMAGIC MK-21, drawing 2022 or 2023.

Baskets

Model C-1, size 1.2 m x 1.0 m x 1.03 m, drawing 3001.  
 Model C-3, size 1.3 m x 1.1 m x 1.03 m, drawing 3003.  
 Model C-4, size 1.6 m x 1.2 m x 1.03 m, drawing 3004.  
 Model C-5, size 2.2 m x 1.4 m x 1.1 m, drawing 3005.  
 Model C-6, size 1.8 m x 1.3 m x 1.1 m, drawing 3006.  
 Model C-7, size 2.0 m x 1.4 m x 1.1 m, drawing 3007.  
 Model C-10, size 1.45 m x 1.15 m x 1.1 m, drawing 3010.

Fuel

Commercial LPG or Propane.

Maximum Weight

2,276 lbs. (1,032 kg) for Basket C-1;  
 3,010 lbs. (1,365 kg) for Basket C-3;  
 3,010 lbs. (1,365 kg) for Basket C-4;  
 3,010 lbs. (1,365 kg) for Basket C-5;  
 2,373 lbs. (1,076 kg) for Basket C-6;  
 2,840 lbs. (1,288 kg) for Basket C-7;  
 2,205 lbs. (1,000 kg) for Basket C-10, or the weight resulting in maximum continuous envelope temperature of 100°C (212°F), whichever is the lesser. See Approved Flight Manual.

Allowable Envelope Temperature

1. Never exceed 130°C (266°F).
2. Maximum continuous 120°C (248°F).

Minimum Crew

One (1) Pilot.

Minimum Fuel Required

Two to six standard cylinders must be present (see NOTE 4).

Fast Deflation System

Optional. See NOTE 5.

Serial No's Eligible

130/14 onwards.

XXIII- Model S-160, Hot Air Balloon, Approved March 6, 1998Envelope

Volume: 160,661 cu. ft. (4,550 m<sup>3</sup>)  
 Drawing: 1016.  
 Gores: 16  
 Disposition: Horizontal  
 Max. Diameter: 72.50 ft. (22.1 m)  
 Total Height: 85.98 ft. (26.2 m)



|                                       |  |
|---------------------------------------|--|
| <u>Air Heater</u>                     | Double or Triple Burner ULTRAMAGIC MK-2, drawing 2002 or 2004.<br>Double or Triple Burner ULTRAMAGIC MK-2 Super, drawing 2006 or 2007.<br>Double or Triple Burner ULTRAMAGIC MK-10, drawing 2012 or 2013.<br>Double or Triple Burner ULTRAMAGIC MK-21, drawing 2022 or 2023.   |
| <u>Baskets</u>                        | Model C-4, size 1.6 m x 1.2 m x 1.03 m, drawing 3004.<br>Model C-5, size 2.2 m x 1.4 m x 1.1 m, drawing 3005.<br>Model C-6, size 1.8 m x 1.3 m x 1.1 m, drawing 3006.<br>Model C-7, size 2.0 m x 1.4 m x 1.1 m, drawing 3007.<br>Model C-10, size 1.45 m x 1.15 m x 1.1 m, drawing 3010.   |
| <u>Fuel</u>                           | Commercial LPG or Propane.   |
| <u>Maximum Weight</u>                 | 3,460 lbs. (1,569 kg) for Basket C-4;<br>3,460 lbs. (1,569 kg) for Basket C-5;<br>2,373 lbs. (1,076 kg) for Basket C-6;<br>2,840 lbs. (1,288 kg) for Basket C-7;<br>2,205 lbs. (1,000 kg) for Basket C-10, or the weight resulting in maximum continuous envelope temperature of 100°C (212°F), whichever is the lesser. See Approved Flight Manual. |
| <u>Allowable Envelope Temperature</u> | 1. Never exceed 130°C (266°F).<br>2. Maximum continuous 120°C (248°F).   |
| <u>Minimum Crew</u>                   | One (1) Pilot.   |
| <u>Minimum Fuel Required</u>          | Two to six standard cylinders must be present (see NOTE 4).  |
| <u>Fast Deflation System</u>          | Optional. See NOTE 5.  |
| <u>Serial No's Eligible</u>           | 160/19 onwards.  |

#### XXIV - Model T-150 Hot Air Balloon, Approved November 28, 2003

|                       |  |
|-----------------------|--|
| <u>Envelope</u>       | Volume: 149,910 cu. ft. (4,245m <sup>3</sup> )<br>Drawing 1059<br>Gores: 20<br>Disposition: Horizontal<br>Max. Diameter: 68.6 ft. (20.9 m)<br>Envelope Height: 82.0 ft. (25.0 m)   |
| <u>Air Heater</u>     | Double/Triple Burner ULTRAMAGIC MK-10, drawings 2012, 2013.<br>Double or Triple Burner ULTRAMAGIC MK-21, drawings 2022, 2023.  |
| <u>Baskets</u>        | Model C-3, size 1.10 m x 1.30 m, drawing 3003.<br>Model C-4, size 1.60 m x 1.20 m, drawing 3004<br>Model C-5, size 1.40 m x 2.20 m, drawing 3005.<br>Model C-6, size 1.80 m x 1.30 m, drawing 3006.<br>Model C-7, size 2.00 m x 1.40 m, drawing 3007.<br>Model C-10, size 1.45 m x 1.15 m, drawing 3010. |
| <u>Fuel</u>           | Commercial LPG or Propane.   |
| <u>Maximum Weight</u> | 3,230 lbs. (1,465 kg) for Basket C-3;<br>3,230 lbs. (1,465 kg) for Basket C-4;   |

|                                       |  |
|---------------------------------------|--|
|                                       | 3,230 lbs. (1,465 kg) for Basket C-5;<br>2,987 lbs. (1,355 kg) for Basket C-6;<br>3,230 lbs. (1,465 kg) for Basket C-7;<br>2,669 lbs. (1,256 kg) for Basket C-10;<br>or the weight resulting in maximum continuous envelope temperature of 120°C (248°F), whichever is the lesser. See Approved Flight Manual. |
| <u>Allowable Envelope Temperature</u> | 1. Never exceed 130°C (266°F).<br>2. Maximum continuous 120°C (248°F).   |
| <u>Minimum Crew</u>                   | One (1) Pilot.   |
| <u>Minimum Fuel Required</u>          | Two to four standard cylinders must be present (see NOTE 4).   |
| <u>Fast Deflation System</u>          | Optional. See NOTE 5.  |
| <u>Serial No's Eligible</u>           | 150/01 onwards.  |

XXV - Model T-180 Hot Air Balloon, Approved February 14, 2002

|                                       |   |
|---------------------------------------|---|
| <u>Envelope</u>                       | Volume: 180,104 cu. ft. (5,100m <sup>3</sup> )<br>Drawing 1045<br>Gores: 20<br>Disposition: Horizontal<br>Max. diameter: 72.8 ft. (22.2 m)<br>Envelope Height: 89.6 ft. (27.3 m)  |
| <u>Air Heater</u>                     | Double and Triple Burner ULTRAMAGIC MK-2, drawing 2002/2004.<br>Double, Triple or Quad Burner ULTRAMAGIC MK-2 Super, drawings 2006, 2007 or 2008.<br>Double, Triple or Quad Burner ULTRAMAGIC MK-10, drawings 2012, 2013 or 2014.<br>Double, Triple or Quad Burner ULTRAMAGIC MK-21, drawings 2022, 2023 or 2024.   |
| <u>Baskets</u>                        | Model C-5, size 1.40 m x 2.20 m, drawing 3005.<br>Model C-6, size 1.30 m x 1.80 m, drawing 3006.<br>Model C-7, size 2.00 m x 1.40 m, drawing 3007.<br>Model C-8, size 1.50 m x 2.60 m, drawing 3008.<br>Model C-9, size 1.60 m x 3.00 m, drawing 3009.  |
| <u>Fuel</u>                           | Commercial LPG or Propane.  |
| <u>Maximum Weight</u>                 | 3,847 lbs. (1,745 kg) for Basket C-5;<br>3,552 lbs. (1,611 kg) for Basket C-6;<br>3,847 lbs. (1,745 kg) for Basket C-7;<br>3,847 lbs. (1,745 kg) for Basket C-8;<br>3,847 lbs. (1,745 kg) for Basket C-9;<br>or the weight resulting in maximum continuous envelope temperature of 120°C (248°F), whichever is the lesser.<br>See Approved Flight Manual. |
| <u>Allowable Envelope Temperature</u> | 1. Never exceed 130°C (266°F).<br>2. Maximum continuous 120°C (248°F).  |
| <u>Minimum Crew</u>                   | One (1) Pilot.  |
| <u>Minimum Fuel Required</u>          | Two to four standard cylinders must be present (see NOTE 4).  |

Fast Deflation System Optional. See NOTE 5.

Serial No's Eligible 180/29 onwards.

XXVI - Model T-210 Hot Air Balloon, Approved October 15, 2002

Envelope

|                  |   |
|------------------|---|
| Volume:          | 211,887 cu. ft. (6,000 m <sup>3</sup> ) |
| Drawing          | 1046                                    |
| Gores:           | 20                                      |
| Disposition:     | N, Horizontal                           |
| Max. diameter:   | 79.72 ft. (24.3 m)                      |
| Envelope Height: | 93.83 ft. (28.6 m)                      |

Air Heater

Triple Burner or Quad Burner ULTRAMAGIC MK-2, drawings 2004 and 2008.  
 Triple or Quad Burner ULTRAMAGIC MK-2 Super, drawings 2007 or 2008.  
 Double, Triple or Quad Burner ULTRAMAGIC MK-10, drawings 2012, 2013 or 2014.  
 Double Burner ULTRAMAGIC MK-21, drawing 2022

Baskets

Model C-5, size 1.40 m x 2.20 m x 1.1 m, drawing 3005.  
 Model C-7, size 2.00 m x 1.40 m x 1.1 m, drawing 3007.  
 Model C-8, size 1.50 m x 2.60 m, drawing 3008  
 Model C-9, size 1.60 m x 3.00 m, drawing 3009.  
 Model C-11, size 1.7 m x 3.5 m, drawing 3011.

Fuel Commercial LPG or Propane.

Maximum Weight

4,255 lbs. (1,930 kg) for Basket C-5;  
 4,563 lbs. (2,070 kg) for Basket C-7;  
 4,563 lbs. (2,070 kg) for Basket C-8;  
 4,563 lbs. (2,070 kg) for Basket C-9;  
 4,563 lbs. (2,070 kg) for Basket C-11,  
 or the weight resulting in maximum continuous envelope temperature of 120°C (248°F), whichever is the lesser. See Approved Flight Manual.

Allowable Envelope Temperature

1. Never exceed 130°C (266°F).
2. Maximum continuous 120°C (248°F).

Minimum Crew One (1) Pilot.

Minimum Fuel Required Two to four standard cylinders must be present (see NOTE 4).

Fast Deflation System Optional. See NOTE 5.

Serial No's Eligible 210/20 onwards.

XXVII - Model V-56, Hot Air Balloon, Approved March 6, 1998

Envelope

|                |  |
|----------------|--|
| Volume:        | 58,262 cu. ft. (1,650 m <sup>3</sup> ) |
| Drawing:       | 1008                                   |
| Gores:         | 24                                     |
| Disposition:   | Vertical                               |
| Max. Diameter: | 49.94 ft. (15.2 m)                     |
| Total Height:  | 62.40 ft. (19.0 m)                     |

Air Heater

Single or Double Burner ULTRAMAGIC MK-2, drawing 2003 or 2002.

|                                       |  |
|---------------------------------------|--|
|                                       | Single or Double Burner ULTRAMAGIC MK-2 Super, drawing 2005 or 2006.<br>Single or Double Burner ULTRAMAGIC MK-10, drawing 2011 or 2012.<br>Single or Double Burner ULTRAMAGIC MK-21, drawing 2021 or 2022.         |
| <u>Baskets</u>                        | Model C-0, size 0.8 m x 0.7 m x 0.9 m, drawing 3000.<br>Model C-2, size 1.00 m x 1.00 m x 1.03 m, drawing 3002.  |
| <u>Fuel</u>                           | Commercial LPG or Propane.   |
| <u>Maximum Weight</u>                 | 569 lbs. (258 kg) for Basket C-0;<br>1,211 lbs. (549 kg) for Basket C-2, or the weight resulting in maximum continuous envelope temperature of 100°C (212°F), whichever is the lesser. See Approved Flight Manual. |
| <u>Allowable Envelope Temperature</u> | 1. Never exceed 130°C (266°F).<br>2. Maximum continuous 120°C (248°F).   |
| <u>Minimum Crew</u>                   | One (1) Pilot.   |
| <u>Minimum Fuel Required</u>          | Two to four standard cylinders must be present (see NOTE 4).   |
| <u>Fast Deflation System</u>          | Optional. See NOTE 5.  |
| <u>Serial No's Eligible</u>           | 56/15 onwards.   |

#### XXVIII - Model V-65, Hot Air Balloon, Approved March 6, 1998

|                       |  |
|-----------------------|--|
| <u>Envelope</u>       | Volume: 64,970 cu. ft. (1,840 m <sup>3</sup> )<br>Drawing: 1004<br>Gores: 24<br>Disposition: Vertical<br>Max. Diameter: 52.53 ft. (16.0 m)<br>Total Height: 65.39 ft. (19.9 m)   |
| <u>Air Heater</u>     | Single or Double Burner ULTRAMAGIC MK-1, drawing 2001.<br>Single or Double Burner ULTRAMAGIC MK-2, drawing 2003 or 2002.<br>Single or Double Burner ULTRAMAGIC MK-2 Super, drawing 2005 or 2006.<br>Single or Double Burner ULTRAMAGIC MK-10, drawing 2011 or 2012.<br>Single or Double Burner ULTRAMAGIC MK-21, drawing 2021 or 2022. |
| <u>Baskets</u>        | Model C-1, size 1.0 m x 1.2 m x 1.03 m, drawing 3001.<br>Model C-2, size 1.0 m x 1.0 m x 1.03 m, drawing 3002.<br>Model C-3, size 1.1 m x 1.3 m x 1.03 m, drawing 3003.<br>Model C-10, size 1.45 m x 1.15 m x 1.1 m, drawing 3010.   |
| <u>Fuel</u>           | Commercial LPG or Propane.   |
| <u>Maximum Weight</u> | 1,407 lbs. (638 kg) for Basket C-1;<br>1,407 lbs. (638 kg) for Basket C-2;<br>1,407 lbs. (638 kg) for Basket C-3;<br>1,407 lbs. (638 kg) for Basket C-10, or the weight resulting in maximum continuous envelope temperature of 100°C (212°F), whichever is the lesser. See Approved Flight Manual.                                    |

|                                       |  |
|---------------------------------------|--|
| <u>Allowable Envelope Temperature</u> | 1. Never exceed 130°C (266°F).<br>2. Maximum continuous 120°C (248°F). |
| <u>Minimum Crew</u>                   | One (1) Pilot.   |
| <u>Minimum Fuel Required</u>          | Two to four standard cylinders must be present (see NOTE 4).           |
| <u>Fast Deflation System</u>          | Optional. See NOTE 5.  |
| <u>Serial No's Eligible</u>           | 65/78 onwards.   |

XXIX - Model V-77, Hot Air Balloon, Approved March 6, 1998

|                                       |   |
|---------------------------------------|---|
| <u>Envelope</u>                       | <p>Volume: 77,329 cu. ft. (2,190 m<sup>3</sup>).</p> <p>Gores: 24 or 32</p> <p>Disposition: Vertical Vertical</p> <p>Max. Diameter: 55.71 ft. (17.0 m) 54.60 ft. (16.6 m)</p> <p>Total Height: 68.65 ft. (20.9 m) 68.87 ft. (21.0 m)</p> <p>Drawing: 1001 1017</p>  |
| <u>Air Heater</u>                     | <p>Single or Double Burner ULTRAMAGIC MK-1, drawing 2001.</p> <p>Single or Double Burner ULTRAMAGIC MK-2, drawing 2003 or 2002.</p> <p>Single or Double Burner ULTRAMAGIC MK-2 Super, drawing 2005 or 2006.</p> <p>Single or Double Burner ULTRAMAGIC MK-10, drawing 2011 or 2012.</p> <p>Single or Double Burner ULTRAMAGIC MK-21, drawing 2021 or 2022.</p> |
| <u>Baskets</u>                        | <p>Model C-1, size 1.0 m x 1.2 m x 1.03 m, drawing 3001.</p> <p>Model C-2, size 1.0 m x 1.0 m x 1.03 m, drawing 3002.</p> <p>Model C-3, size 1.1 m x 1.3 m x 1.03 m, drawing 3003.</p> <p>Model C-10, size 1.45 m x 1.15 m x 1.1 m, drawing 3010.</p>   |
| <u>Fuel</u>                           | Commercial LPG or Propane.  |
| <u>Maximum Weight</u>                 | <p>1,667 lbs. (756 kg) for Basket C-1;</p> <p>1,667 lbs. (756 kg) for Basket C-2;</p> <p>1,667 lbs. (756 kg) for Basket C-3;</p> <p>1,667 lbs. (756 kg) for Basket C-10, or the weight resulting in maximum continuous envelope temperature of 100°C (212°F), whichever is the lesser. See Approved Flight Manual.</p>  |
| <u>Allowable Envelope Temperature</u> | 1. Never exceed 130°C (266°F).<br>2. Maximum continuous 120°C (248°F).  |
| <u>Minimum Crew</u>                   | One (1) Pilot.  |
| <u>Minimum Fuel Required</u>          | Two to four standard cylinders must be present (see NOTE 4).  |
| <u>Fast Deflation System</u>          | Optional. See NOTE 5.   |
| <u>Serial No's Eligible</u>           | 77/147 onwards.   |

XXX - Model V-90 Hot Air Balloon, Approved March 6, 1998

|                                       |  |
|---------------------------------------|--|
| <u>Envelope</u>                       | Volume: 90,041 cu. ft. (2,550 m <sup>3</sup> )<br>Drawing: 1018<br>Gores: 24<br>Disposition: Vertical<br>Max. Diameter: 58.61 ft. (17.9 m)<br>Total Height: 71.93 ft. (21.9 m)   |
| <u>Air Heater</u>                     | Double Burner ULTRAMAGIC MK-2, drawing 2002.<br>Double Burner ULTRAMAGIC MK-2 Super, drawing 2006.<br>Double Burner ULTRAMAGIC MK-10, drawing 2012.<br>Double Burner ULTRAMAGIC MK-21, drawing 2022  |
| <u>Baskets</u>                        | Model C-1, size 1.2 m x 1.0 m x 1.03 m, drawing 3001.<br>Model C-2, size 1.0 m x 1.0 m x 1.03 m, drawing 3002.<br>Model C-3, size 1.3 m x 1.1 m x 1.03 m, drawing 3003.<br>Model C-4, size 1.6 m x 1.2 m x 1.03 m, drawing 3004.   |
| <u>Fuel</u>                           | Commercial LPG or Propane.   |
| <u>Maximum Weight</u>                 | 1,936 lbs. (878 kg) for Basket C-1;<br>1,667 lbs. (756 kg) for Basket C-2;<br>1,936 lbs. (878 kg) for Basket C-3;<br>1,936 lbs. (878 kg) for Basket C-4, or the weight resulting in<br>maximum continuous envelope temperature of 100°C (212°F),<br>whichever is the lesser. See Approved Flight Manual. |
| <u>Allowable Envelope Temperature</u> | 1. Never exceed 130°C (266°F).<br>2. Maximum continuous 120°C (248°F).   |
| <u>Minimum Crew</u>                   | One (1) Pilot.   |
| <u>Minimum Fuel Required</u>          | Two to four standard cylinders must be present (see NOTE 4).   |
| <u>Fast Deflation System</u>          | Optional. See NOTE 5.  |
| <u>Serial No's Eligible</u>           | 90/26 onwards.   |

XXXI - Model V-105, Hot Air Balloon, Approved March 6, 1998

|                   |  |
|-------------------|--|
| <u>Envelope</u>   | Volume: 104,165 cu. ft. (2,950 m <sup>3</sup> )<br>Drawing: 1019<br>Gores: 24<br>Disposition: Vertical<br>Max. Diameter: 61.53 ft. (18.8 m)<br>Total Height: 75.23 ft. (22.9 m)  |
| <u>Air Heater</u> | Double or Triple burner ULTRAMAGIC MK-2, drawing 2002 or 2004.<br>Double or Triple burner ULTRAMAGIC MK-2 Super, drawing 2006 or 2007.<br>Double or Triple burner ULTRAMAGIC MK-10, drawing 2012 or 2013.<br>Double or Triple Burner ULTRAMAGIC MK-21, drawing 2022 or 2023. |
| <u>Baskets</u>    | Model C-1, size 1.2 m x 1.0 m x 1.03 m, drawing 3001.<br>Model C-3, size 1.3 m x 1.1 m x 1.03 m, drawing 3003.<br>Model C-4, size 1.6 m x 1.2 m x 1.03 m, drawing 3004.  |

|                                       |   |
|---------------------------------------|---|
| <u>Fuel</u>                           | Commercial LPG or Propane.  |
| <u>Maximum Weight</u>                 | 2,276 lbs. (1,032 kg) for Basket C-1;<br>2,276 lbs. (1,032 kg) for Basket C-3;<br>2,276 lbs. (1,032 kg) for Basket C-4, or the weight resulting in maximum continuous envelope temperature of 100°C (212°F), whichever is the lesser. See Approved Flight Manual. |
| <u>Allowable Envelope Temperature</u> | 1. Never exceed 130°C (266°F).<br>2. Maximum continuous 120°C (248°F).  |
| <u>Minimum Crew</u>                   | One (1) Pilot.  |
| <u>Minimum Fuel Required</u>          | Two to six standard cylinders must be present (see NOTE 4).   |
| <u>Fast Deflation System</u>          | Optional. See NOTE 5.   |
| <u>Serial No's Eligible</u>           | 105/47 onwards.   |

XXXII - Model Z-90, Hot Air Balloon, Approved March 6, 1998

|                                       |  |
|---------------------------------------|--|
| <u>Envelope</u>                       | Volume: 90,041 cu. ft. (2,550 m <sup>3</sup> ).<br>Drawing: 1025<br>Gores: 16<br>Max. Diameter: 59.71 ft. (18.2 m)<br>Total Height: 74.48 ft. (22.7 m)   |
| <u>Air Heater</u>                     | Double Burner ULTRAMAGIC MK-2, drawing 2002.<br>Double Burner ULTRAMAGIC MK-2 Super, drawing 2006.<br>Double Burner ULTRAMAGIC MK-10, drawing 2012.<br>Double Burner ULTRAMAGIC MK-21, drawing 2022.   |
| <u>Baskets</u>                        | Model C-1, size 1.2 m x 1.0 m x 1.03 m, drawing 3001.<br>Model C-2, size 1.0 m x 1.0 m x 1.03 m, drawing 3002.<br>Model C-3, size 1.3 m x 1.1 m x 1.03 m, drawing 3003.<br>Model C-4, size 1.6 m x 1.2 m x 1.03 m, drawing 3004.<br>Model C-10, size 1.45 m x 1.15 m x 1.1 m, drawing 3010.  |
| <u>Fuel</u>                           | Commercial LPG or Propane.   |
| <u>Maximum Weight</u>                 | 1,971 lbs. (894 kg) for Basket C-1;<br>1,667 lbs. (756 kg) for Basket C-2;<br>1,971 lbs. (894 kg) for Basket C-3;<br>1,971 lbs. (894 kg) for Basket C-4;<br>1,971 lbs. (894 kg) for Basket C-10, or the weight resulting in maximum continuous envelope temperature of 100°C (212°F), whichever is the lesser. See Approved Flight Manual. |
| <u>Allowable Envelope Temperature</u> | 1. Never exceed 130°C (266°F).<br>2. Maximum continuous 120°C (248°F).   |
| <u>Minimum Crew</u>                   | One (1) Pilot.   |
| <u>Fuel Capacity</u>                  | Two to four standard cylinders must be present (see Note 4).   |
| <u>Fast Deflation System</u>          | Optional. See NOTE 5.  |
| <u>Serial No's Eligible</u>           | 90/26 onwards.   |

XXXIII - Model H-31, Hot Air Balloon, Approved August 1, 2008

|                                       |  |
|---------------------------------------|--|
| <u>Envelope</u>                       | Volume: 31,788 cu. ft. (900 m <sup>3</sup> )<br>Drawing: 1012<br>Gores: 12<br>Disposition: Horizontal<br>Max. Diameter: 41.0 ft. (12.5 m)<br>Total Height: 53.1 ft. (16.2 m)                                     |
| <u>Air Heater</u>                     | Single Burner ULTRAMAGIC MK-2, drawing 2003.<br>Single Burner ULTRAMAGIC MK-10, drawing 2011.<br>Single Burner ULTRAMAGIC MK-21, drawing 2021.<br>Single Burner ULTRAMAGIC BMK-008, drawing 2031.                |
| <u>Baskets</u>                        | Model C-0, size 0.7 m x 0.8 m x 1.03 m, drawing 3000.<br>Model C-2, size 1.0 m x 1.0 m x 1.03 m, drawing 3002.   |
| <u>Fuel</u>                           | Commercial LPG or Propane.   |
| <u>Maximum Weight</u>                 | 677 lbs. (307 kg) for Basket C-0;<br>677 lbs. (307 kg) for Basket C-2, or the weight resulting in maximum continuous envelope temperature of 100°C (212°F), whichever is the lesser. See Approved Flight Manual. |
| <u>Allowable Envelope Temperature</u> | 1. Never exceed 130°C (266°F).<br>2. Maximum continuous 120°C (248°F).   |
| <u>Minimum Crew</u>                   | One (1) Pilot.   |
| <u>Minimum Fuel Required</u>          | 1 standard cylinders must be present (see NOTE 4).   |
| <u>Fast Deflation System</u>          | Optional. See NOTE 5.  |
| <u>Serial No's Eligible</u>           | 31/01 onwards.   |

XXXIV - Model M-42, Hot Air Balloon, Approved August 1, 2008

|                                       |  |
|---------------------------------------|--|
| <u>Envelope</u>                       | Volume: 42,384 cu. ft. (1,200 m <sup>3</sup> )<br>Drawing: 1038/010<br>Gores: 24<br>Disposition: Horizontal<br>Max. Diameter: 44.6 ft. (13.6 m)<br>Total Height: 57.4 ft. (17.5 m)                               |
| <u>Air Heater</u>                     | Single Burner ULTRAMAGIC MK-10, drawing 2011<br>Single Burner ULTRAMAGIC MK-21, drawing 2021<br>Single Burner ULTRAMAGIC BMK-008, drawing 2031   |
| <u>Baskets</u>                        | Model C-0, size 0.7 m x 0.8 m x 1.03 m, drawing 3000<br>Model C-2, size 1.0 m x 1.0 m x 1.03 m, drawing 3002   |
| <u>Fuel</u>                           | Commercial LPG or Propane.   |
| <u>Maximum Weight</u>                 | 842 lbs. (382 kg) for Basket C-0;<br>913 lbs. (414 kg) for Basket C-2, or the weight resulting in maximum continuous envelope temperature of 100°C (212°F), whichever is the lesser. See Approved Flight Manual. |
| <u>Allowable Envelope Temperature</u> | 1. Never exceed 130°C (266°F).<br>2. Maximum continuous 120°C (248°F).   |



|                              |  |
|------------------------------|--|
| <u>Minimum Crew</u>          | One (1) Pilot.                                       |
| <u>Minimum Fuel Required</u> | Two standard cylinders must be present (see NOTE 4). |
| <u>Fast Deflation System</u> | Optional. See NOTE 5.                                |
| <u>Serial No's Eligible</u>  | 42/08 onwards.                                       |

XXXV - Model M-56, Hot Air Balloon, Approved August 1, 2008

|                                       |  |
|---------------------------------------|--|
| <u>Envelope</u>                       | Volume: 56,159 cu. ft. (1,590 m <sup>3</sup> )<br>Drawing: 1034<br>Gores: 24<br>Disposition: Horizontal<br>Max. Diameter: 48.0 ft. (14.9 m)<br>Total Height: 61.7 ft. (18.8 m)   |
| <u>Air Heater</u>                     | Single or Double Burner ULTRAMAGIC MK-2, drawing 2003 or 2002.<br>Single or Double Burner ULTRAMAGIC MK-2 Super, drawing 2005 or 2006.<br>Single or Double Burner ULTRAMAGIC MK-10, drawing 2011 or 2012.<br>Single or Double Burner ULTRAMAGIC MK-21, drawing 2021 or 2022.<br>Burner ULTRAMAGIC MK-21Elec, drawing 0100-0000-0200.<br>Single or Double Burner ULTRAMAGIC BMK-008, drawing 2031 or 2032 |
| <u>Baskets</u>                        | Model C-0, size 0.8 m x 0.7 m, drawing 3000.<br>Model C-2, size 1.0 m x 1.0 m x 1.03 m, drawing 3002.  |
| <u>Fuel</u>                           | Commercial LPG or Propane.   |
| <u>Maximum Weight</u>                 | 880 lbs. (399 kg) for Basket C-0;<br>1,213 lbs. (550 kg) for Basket C-2 or the weight resulting in maximum continuous envelope temperature of 120°C (248°F), whichever is the lesser. See Approved Flight Manual.  |
| <u>Allowable Envelope Temperature</u> | 1. Never exceed 130°C (266°F).<br>2. Maximum continuous 120°C (248°F).   |
| <u>Minimum Crew</u>                   | One (1) Pilot.   |
| <u>Minimum Fuel Required</u>          | Two or more standard cylinders must be present (see NOTE 4).   |
| <u>Fast Deflation System</u>          | Optional. See NOTE 5.  |
| <u>Serial No's Eligible</u>           | 56-14 onwards.   |

XXXVI- Model M-77C, Hot Air Balloon, Approved August 1, 2008

|                 |  |
|-----------------|--|
| <u>Envelope</u> | Volume: 77,704 cu. ft. (2,200 m <sup>3</sup> )<br>Drawing: 1057<br>Gores: 24<br>Disposition: Horizontal<br>Max. Diameter: 50.9 ft. (15.5 m)<br>Total Height: 78.7 ft. (24.0 m) |
|-----------------|--|

|                                       |   |
|---------------------------------------|---|
| <u>Air Heater</u>                     | <p>Single or Double Burner ULTRAMAGIC MK-2, drawing 2003 or 2002.</p> <p>Single or Double Burner ULTRAMAGIC MK-2 Super, drawing 2005 or 2006.</p> <p>Single or Double Burner ULTRAMAGIC MK-10, drawing 2011 or 2012.</p> <p>Single or Double Burner ULTRAMAGIC MK-21, drawing 2021 or 2022.</p> <p>Burner ULTRAMAGIC MK-21Elec, drawing 0100-0000-0200.</p> <p>Single or Double Burner ULTRAMAGIC BMK-008, drawing 2031 or 2032</p> |
| <u>Baskets</u>                        | <p>Model C-1, size 1.2 m x 1.0 m x 1.03 m, drawing 3001.</p> <p>Model C-2, size 1.0 m x 1.0 m x 1.03 m, drawing 3002.</p> <p>Model C-3, size 1.3 m x 1.1 m x 1.03 m, drawing 3003.</p> <p>Model C-10, size 1.45 m x 1.15 m x 1.1 m, drawing 3010.</p>   |
| <u>Fuel</u>                           | Commercial LPG or Propane.  |
| <u>Maximum Weight</u>                 | <p>1,667 lbs. (756 kg) for Basket C-1;</p> <p>1,667 lbs. (756 kg) for Basket C-2;</p> <p>1,667 lbs. (756 kg) for Basket C-3;</p> <p>1,667 lbs. (756 kg) for Basket C-10, or the weight resulting in maximum continuous envelope temperature of 100°C (212°F), whichever is the lesser. See Approved Flight Manual.</p>  |
| <u>Allowable Envelope Temperature</u> | <p>1. Never exceed 130°C (266°F).</p> <p>2. Maximum continuous 120°C (248°F).</p>   |
| <u>Minimum Crew</u>                   | One (1) Pilot.  |
| <u>Minimum Fuel Required</u>          | Two or more standard cylinders must be present (see NOTE 4).  |
| <u>Fast Deflation System</u>          | Optional. See NOTE 5.   |
| <u>Serial No's Eligible</u>           | 77/190 onwards.   |

#### XXXVII - Model M-120, Hot Air Balloon, Approved August 1, 2008

|                   |   |
|-------------------|---|
| <u>Envelope</u>   | <p>Volume: 120,088 cu. ft. (3,400 m<sup>3</sup>)</p> <p>Drawing: 1055</p> <p>Gores: 24</p> <p>Disposition: Horizontal</p> <p>Max. Diameter: 63.0 ft. (19.2 m)</p> <p>Total Height: 76.8 ft. (23.4 m)</p>  |
| <u>Air Heater</u> | <p>Double or Triple Burner ULTRAMAGIC MK-2, drawing 2002 or 2004.</p> <p>Double or Triple Burner ULTRAMAGIC MK-2 Super, drawing 2006 or 2007.</p> <p>Double or Triple Burner ULTRAMAGIC MK-10, drawing 2012 or 2013.</p> <p>Double or Triple Burner ULTRAMAGIC MK-21, drawing 2022 or 2023.</p> <p>Burner ULTRAMAGIC MK-21Elec, drawing 0100-0000-0200.</p> <p>Single or Double Burner ULTRAMAGIC BMK-008, drawing 2031 or 2032</p> |
| <u>Baskets</u>    | <p>Model C-1, size 1.2 m x 1.0 m x 1.03 m, drawing 3001.</p> <p>Model C-3, size 1.3 m x 1.1 m x 1.03 m, drawing 3003.</p> <p>Model C-4, size 1.6 m x 1.2 m x 1.03 m, drawing 3004.</p>  |

|                                       |  |
|---------------------------------------|--|
|                                       | Model C-5, size 2.2 m x 1.4 m x 1.1 m, drawing 3005.<br>Model C-6, size 1.8 m x 1.3 m x 1.1 m, drawing 3006.<br>Model C-7, size 2.0 m x 1.4 m x 1.1 m, drawing 3007.<br>Model C-10, size 1.45 m x 1.15 m x 1.1 m, drawing 3010.  |
| <u>Fuel</u>                           | Commercial LPG or Propane.   |
| <u>Maximum Weight</u>                 | 2,589 lbs. (1,173 kg) for Basket C-1;<br>2,589 lbs. (1,173 kg) for Basket C-3;<br>2,589 lbs. (1,173 kg) for Basket C-4;<br>2,589 lbs. (1,173 kg) for Basket C-5;<br>2,589 lbs. (1,173 kg) for Basket C-6;<br>2,589 lbs. (1,173 kg) for Basket C-7;<br>2,589 lbs. (1,173 kg) for Basket C-10, or the weight resulting in maximum continuous envelope temperature of 100°C (212°F), whichever is the lesser. See Approved Flight Manual. |
| <u>Allowable Envelope Temperature</u> | 1. Never exceed 130°C (266°F).<br>2. Maximum continuous 120°C (248°F).   |
| <u>Minimum Crew</u>                   | One (1) Pilot.   |
| <u>Minimum Fuel Required</u>          | Two to six standard cylinders must be present (see NOTE 4).  |
| <u>Fast Deflation System</u>          | Optional. See NOTE 5.  |
| <u>Serial No's Eligible</u>           | 120/01 onwards.  |

#### XXXVIII - Model N-425, Hot Air Balloon, Approved August 1, 2008

|                       |   |
|-----------------------|---|
| <u>Envelope</u>       | Volume: 423,840 cu. ft. (12,000 m <sup>3</sup> )<br>Drawing: 1058<br>Gores: 28<br>Disposition: N, Horizontal<br>Max. diameter: 96.8 ft. (29.5 m)<br>Envelope Height: 116.5 ft. (35.5 m)   |
| <u>Air Heater</u>     | Quadruple Burner ULTRAMAGIC MK-2, drawing 2005.<br>Quadruple Burner ULTRAMAGIC MK-2 Super, drawing 2008.<br>Quadruple Burner ULTRAMAGIC MK-10, drawing 2014.<br>Quadruple Burner ULTRAMAGIC MK-21, drawing 2024.<br>Burner ULTRAMAGIC MK-21Elec, drawing 0100-0000-0200.<br>Triple or Quad Burner ULTRAMAGIC BMK-050, drawing 2053 or 2054.           |
| <u>Baskets</u>        | Model C-5, size 1.40 m x 2.20 m, drawing 3005.<br>Model C-8, size 1.50 m x 2.60 m, drawing 3008.<br>Model C-9, size 1.60 m x 3.00 m, drawing 3009.<br>Model C-11, size 1.70 m x 3.5 m, drawing 3011.<br>Model C-12, size 1.70 m x 4.5 m, drawing 3012.  |
| <u>Fuel</u>           | Commercial LPG or Propane.  |
| <u>Maximum Weight</u> | 4,431 lbs. (2,010 kg) for Basket C-5;<br>4,960 lbs. (2,250 kg) for Basket C-8;<br>6,204 lbs. (2,814 kg) for Basket C-9;<br>7,346 lbs. (3,332 kg) for Basket C-11;<br>8,184 lbs. (3,712 kg) for Basket C-12, or the weight resulting in maximum continuous envelope temperature of 100°C (212°F), whichever is the lesser. See Approved Flight Manual. |

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| <u>Allowable Envelope Temperature</u> | 1. Never exceed 130°C (266°F).<br>2. Maximum continuous 120°C (248°F). |
| <u>Minimum Crew</u>                   | One (1) Pilot.   |
| <u>Minimum Fuel Required</u>          | 4 or more standard cylinders must be present (see NOTE 4).             |
| <u>Fast Deflation System</u>          | Optional. See NOTE 5.  |
| <u>Serial No's Eligible</u>           | 425/01 onwards.  |

#### DATA PERTINENT TO ALL MODELS

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| <u>Import Requirements</u>        | A U.S. Standard Airworthiness Certificate may be issued on the basis of a Certificate of Airworthiness for Export, signed by a representative of the Direccion General de Aviacion Civil of Spain containing the following statement "The balloon covered by this certificate has been examined, tested and found to conform to the type design approved under F.A.A. Type Certificate B02CE and is in a condition for safe operation" |
| <u>Certification basis</u>        | FAR 21.29 and FAR 31, effective on January, 1990, as amended by 31-1 through 31-5 inclusive. Application for Type Certificate dated June 5, 1997.<br>Equivalent level of Safety findings per provision of 14 CFR 21.21(b)(1):<br>ACE-08-15 of August 1, 2008, Burners, FAR 31.47(d)  |
| <u>Validation date</u>            | Type Certificate B02CE issued March 6, 1998<br><br>Type Certificate B02CE was issued pursuant to FAR 21.29, in validation of the Direccion General de Aviacion Civil of Spain's certification of compliance with the aforementioned certification basis.   |
| <u>Equipment</u>                  | In addition to the basic equipment required by the certification basis, the following equipment is also required:<br>1) Lighter or similar ignition device (striker, matches or equivalent).<br>2) Fire extinguisher.<br>3) The Approved ULTRAMAGIC, S.A. Flight Manual. (see Note 7)  |
| <u>Maintenance and Inspection</u> | Maintenance and inspection must be carried out in accordance with the ULTRAMAGIC, S.A. Flight and Maintenance Manual, Revision 2, dated January 30, 1998, or later issue.  |
| <u>Service Information</u>        | ULTRAMAGIC S.A. technical information (Service Bulletins), published in the English language for U.S. Type Designs, that carry a statement "Approved by the Direccion General de Aviacion Civil (DGAC) of Spain" or "Approved by EASA", may be interpreted as F.A.A. approved.   |

#### NOTES:

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| <u>NOTE 1</u> | Each hot air balloon must have an individual registration number. An individual envelope is eligible for a Standard Airworthiness Certificate when mated with any approved combination of basket and burner assembly. Change to an eligible combination must be endorsed by log book entry by the pilot in command, or by an F.A.A. certificated repairman. |
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- NOTE 2 For the purpose of maintenance and inspection, operation records (log books) must be maintained with each hot air balloon envelope. If burner, basket, instruments and/or tanks are interchanged, separate log books must be maintained for each component or group of components which are always used together. The Flight and Maintenance Manual must be presented to an FE certificated repair station during annual inspections, for verification of components being inspected.
- NOTE 3 Annual maintenance inspections should be carried out in accordance with the inspection schedule contained within the ULTRAMAGIC, S.A. Maintenance Manual.
- NOTE 4 The approved types of fuel cylinders for all models are as follows:  
Worthington cylinder 4100-U4-27.  
ULTRAMAGIC cylinder type M-20 or M-20D.  
ULTRAMAGIC cylinder type M-30 or M-30D.  
ULTRAMAGIC cylinder type M-40 or M-40D.  
ULTRAMAGIC cylinder T-25.
- NOTE 5 The optional FDS system of deflation may be installed in accordance to drawings 1031/72, 1031/75 and 1031/76.
- NOTE 6 deleted
- NOTE 7 ULTRAMAGIC flight manual Document: FM04US Initial Issue Revision 1 dated July 29, 2008 or later versions are required for models H-31, M-42, M-56, M-77C, M-120, N-425.

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